

Bureau of Reclamation.

In 1920 the Heber Plant on the
Grove River was rebuilt and
connected to the Heber Power & Light
system. For fifteen years this plant
was operated with very little trouble
from ice, and none from rocks.
When freezing weather started, the
screens were pulled up and were
not put back until the spring
run-off started. In 1945 the
Bureau of Reclamation started
dredging the river to carry
wester and Duchesne water. From
1945 to the present time we have
been in continuous trouble.

From 1945, ice jams and snags
were unheard of. Since that time we
have had several ice jams that have
flooded the dam out, filled the forebay
with ~~tons~~ rock and brush, and tons of
rock entered the pipeline, which has
been a continuous source of trouble to the
present time. Much of this rock is
still in the line, and from time to time
comes loose and plugs the water wheels
and gates. If a rock happens to be in
the gate when the governor calls for
a shut down, it means a runaway,
which has happened ~~several~~ several
times.

The Bureau of Reclamation and the
water users were aware of the damage.
The river was causing, but still
continued to dredge and put more
water in the channel than it was
capable of carrying. The water users
personnel said all they had to do was
get the water, and their lawyers would
take care of the rest. The water users
helped clean the channel above the
forebay a couple of times, when it was
impossible to get the water through.

The additional water from the
Duchaine and Weber, set the banks
of the Tross River to such an extent,
that a great many more trees, brush
and acres of sod were cut loose
and made it almost impossible
to keep a constant flow of water in
our pipe line.

July 30, 1951 - Coils burned in #1
 Feb. 15, 1952 Coils burned in #2
 Nov. 7, 1952 Coils burned in #1
 Jan. 12, 1946 Coils burned in #2
 May 10, 1941 - #1 Burned - New winding)
 July 5, 1942 - #2 Burned - New winding
 Feb. 3, 1942 #2 Runner repaired. Emco.

1953 - Operation shows what the plant will
 do when the river bed was not molested
 the fall before.

1946 - Nov. 5 - Bureau of Re. cleaned pond with cut.
 1950 - Nov. 11 - New shaft in #1

1944 - Crook - Moulton Horner, Bruner to April
 1945 - Horner - Moulton, Thacker, Crook
 1946 - Horner - Thacker - Moulton, Crook

1950 - Ralph Giles, Grant Giles, Moulton - Ryan.

1942(?) New Water Wheel - S. Morgan Smith Co. Inc.

1948 July 25 NO-2. 270 FT BYRON PICKING AND

48 Feb 9 No 2 Shaft repaired

48 March 3 Broken Gate Lever

48 March 31 Another Broken Gate

Dec 22-48- NO-2 Broken Shaft

1949 Mar. 23 Broken Gate Lever

1949 Mar. 31- Broken Gate Lever no-2

Mar. 6-1950. Shaft broke

Mar. 28-1949- Broken Gate Lever

Feb. 18-1949- Broken Shaft

1950-51-52-53 Lumber & May

April 15, 1958- Broken Shaft,

Mar 21 1958 Shaft + End Bell Lumber & May

May 12, 1960 Shaft broken.

June 9 - 1955 - Water level 10 ft.

1954 - Check Extra Labor at Dam & any
1954 - Feb. Check progress for water level at the

1954 to 1960 - Foundation & May cost of water
to the water -

1954 - Check cost of water to the (S. Western Smith)
(1942) cost of water to the (S. Western Smith)

1-24-57 - June 2nd Pumped water at Dam

April 1957 - Cost of water at Dam
1957 - High water did not fill water -
1957 - High water & water level at Dam

1960 - Cost of water for the Cat. at Dam (S. W.)

1954

No major trouble, other than rocks in the gates, was caused until September 16th when the Bureau of Reclamation or Water Users began dredging the river.

Loss of power and extra labor to clean screens, and machines. \$500.00

1955

May - 16000 K.W.H. @ .64 ——— \$96.00
 125 K.W. @ \$1.60 on Water Power 200.00
 Extra Labor cleaning screens & Machines 1.00
\$297.00

June. 69200 K.W.H. @ .64 ——— 415.20
 600 K.W. on peak @ 1.60 ——— 960.
 Labor ——— 300
\$1675.20

Rocks washed in Forebay continued to cause trouble during July, August, & Sept. Hard to estimate actual damage.

October

25th Water users working in river, Both machines off because of trash.
~~485 K.W. @ \$1.60 ——— \$776.00~~

November

5th Both machines off line because of trash.

485 K.W. @ \$1.60 ——— \$776.00
 Labor cleaning screens & Machines - 100.00

1955

Dec.

23rd River loaded with trash.
~~Both machines off but not on peak,~~

1956

From Feb. 1 to 9th the plant was shut down most of the time, due to mush ice and brush.

The tail race was blocked solid from the plant to the Provo River. This had to be blasted with powder in order to get the water through. At the same time the inside of the plant was flooded by water and mush ice. The mush ice being six ft deep in the east end of plant.

The bottom two feet of the generator was flooded with water. On April 4th No 1 generator burned out several coils, which were in the flooded area.

Damage for Feb

98000 K.W.H @ .6¢	588.00
600 K.W. @ \$1.60 on peak	960.00
48 days labor @ \$16.00 (line crew)	768.00
Heber City Employees	171.40
100 Gall fuel oil	14.00
2 Oil Burners	42.00
100 lbs of Powder & Caps	34.00
	<hr/> \$2575.40

The day of this trouble - H.C. Clegg and Sherman Siles, inspected the Provo River and Weber Canal, and found that the mush ice was coming from the Weber Canal. The Provo River was clear.

1956.

- 3rd Screens plugged with trash.
 5th River full of trash
 7th #2 machine off to clean.
 8th Intake + screens plugged. #2 off.
 9th #2 machine off
 10th #2 " "
 11th #2 " "
 12th #2 " " part of day
 13th Both machines off at 12:45 AM. Ice jam
 caused by work in river
 14th #2 off line to remove rocks from gates.
 20th #2 off to clean
 23th #2 " " "
 27th #2 " " "

20000 KW.H. @ .6¢	_____	\$120.00
280 KW. @ \$1.60	_____	448.00

1957

Jan.

- 1st #2 machine off line to clean
 7th #2 " " " "
 24 #2 " " " "
 31 #2 " " " "

Feb.

4. Screens plugged. Down to 280 KW
 #2 machine off to clean.
 14 - #2 " " " "

During Nov. Dec. 1956 and Jan. Feb.
 1957 it was necessary to put screens
 down and hire man to keep them
 clean

Labar
 Fuel Oil

\$750.00
 140.00

1956

May 21st to 27th

Forebay full of rocks.

60000 KWH @ .6¢	362.40
580 KWH. on peak @ \$1.60	928.00
24 days labor @ 16.00 (Line Crew)	384.00
Ferris Clegg (Labor)	180.00
	<hr/>

May 27th to June 27th

1854.40

Forebay still full of rocks

212000 K.W.H. @ .6¢	1272.00
495 KWH. @ \$1.60	792.00
48 days labor (Line Crew)	768.00
	<hr/>

3832.00

~~Nov. 1956~~

10th - No. 1 machine full of trash
 17th Screen plugged with trash
 20th Ice jams. Both machines down
 Started between Woodland and
 Fitzgerald Ranch.
 River dredged from Weber canal to
 Clydes Ranch

600 KWH. @ \$1.60	960.00
36000 KWH. @ .6¢	216.00

1956

May 21st to 27th

Forebay full of rocks.

60000 KWH @ .6¢	36240
580 KWH. on peak @ \$1.60	928.00
24 days labor @ 16.00 (Line Crew)	384.00
Ferris Clegg (Labor)	180.00
	<hr/> 1854.40

May 27th to June 27th

Forebay still full of rocks

212000 K.W.H. @ .6¢	\$1272.00
495 K.W. @ \$1.60	792.00
48 days labor (Line Crew)	768.00
	<hr/> 3832.00

~~May 1st to 10th~~

10th - No. 1 machine full of trash
 17th Screen plugged with trash
 20th Ice jams. Both machines down
 Started between Woodland and
 Fitzgerald Ranch.
 River dredged from Weber canal to
 Clydes Ranch

600 KWH. @ \$1.60	960.00
36000 KWH. @ .6¢	216.00

1957.

During May and June it was
necessary to hire extra help to keep
trees out of Forebay.
Cost of labor _____ \$500.00

July 3rd

Water cut off from Weber without
notice.

300 K.H. @ 1.60	_____	\$480.00
21600 K.H. @ .44	_____	129.00
		<u>609.00</u>

High water in spring of 1956 and
1957 cut new concrete dams down
to reinforcing steel. Rocks coming
through acted like a ball mill on
the concrete.

Dams built new in Nov. 1954 at
a cost of \$5000.00

Upper end of settling pond is
now filled with rocks and trees.
This directed the water around the
north bank, which kept most
of the rocks out of the Forebay.